Limoss MD140-02-L1-157-307

Limoss ProFurnitureParts MD140-02-L1-157-307 Recliner Motor Actuator User Manual

Model: MD140-02-L1-157-307 | Part Numbers: 450312, 452958

1. Product Overview

This manual provides detailed instructions for the installation, operation, and maintenance of the Limoss ProFurnitureParts MD140-02-L1-157-307 Recliner Motor Actuator. This actuator is designed as a replacement part for Limoss models 450312 and 452958, commonly found in electric recliners. It features a 2-pin flat round power transformer connection and a 5-pin hand control connection.

Before proceeding with any installation or maintenance, please read this manual thoroughly and ensure you understand all safety warnings and instructions.

2. Safety Warnings

- **Always ensure the power supply is disconnected** before handling or attempting any installation, repair, or maintenance of the actuator or associated components.
- Review the complete installation instructions before attempting to install the actuator.
- Do not exceed the maximum weight capacity of the recliner or the actuator.
- Always use appropriate safety precautions when handling electrical components.
- Keep children and pets away from the recliner during installation and operation.
- If you are unsure about any step, consult a qualified technician.

3. Product Identification

It is crucial to verify that you have the correct replacement part. This actuator is compatible with Limoss part numbers 450312 and 452958, and model number MD140-02-L1-157-307.

Locate the label on your existing motor actuator to confirm the model and part numbers before proceeding with installation.



Figure 3.1: Actuator Identification Label. This label displays the model number MD140-02-L1-157-307, part number 450312, and serial number. The reference number *0207131* is also visible on the label.

4. Setup and Installation

This section outlines the general steps for replacing your recliner motor actuator. Specific installation procedures may vary depending on your recliner model. Always refer to your recliner's original manual if available.

4.1 Required Tools (Typical)

- Screwdriver set (Phillips and Flathead)
- Wrench set
- Pliers
- Safety gloves and eye protection

4.2 Disconnecting the Old Actuator

1. **Disconnect all power** to the recliner by unplugging it from the wall outlet.
2. Carefully turn the recliner over or tilt it to access the underside.
3. Locate the existing motor actuator.
4. Disconnect the 2-pin flat round power transformer connection and the 5-pin hand control connection from the old actuator.
5. Unbolt or unclip the old actuator from the recliner frame. Note the orientation and mounting points for reinstallation.

4.3 Installing the New Actuator

1. Position the new Limoss MD140-02-L1-157-307 actuator in the same location and orientation as the old one.
2. Securely bolt or clip the new actuator to the recliner frame. Ensure all mounting points are firm.
3. Connect the 2-pin flat round power transformer cable to the corresponding port on the new actuator.
4. Connect the 5-pin hand control cable to the corresponding port on the new actuator.
5. Double-check all connections to ensure they are secure.



Figure 4.1: 2-Pin Power Connector. This image shows the typical 2-pin flat round connector for the power transformer.



Figure 4.2: Actuator Mounting Bracket. This image highlights the integrated mounting bracket for securing the actuator to the recliner frame.

4.4 Dimensions and Stroke

Ensure the dimensions of the replacement actuator are compatible with your recliner's frame. The following image illustrates key measurements:



Figure 4.3: Actuator Dimensions. The minimum installation size is approximately 61.81 inches, and the stroke length is approximately 120.87 inches. These measurements are critical for proper fitment.

5. Operation

Once the actuator is correctly installed and all connections are secure, plug the recliner's power cord back into a wall outlet. The recliner should now operate normally using its hand control. Press the appropriate buttons on the hand control to extend or retract the recliner mechanism.
If the recliner does not respond, refer to the Troubleshooting section.

6. Maintenance

The Limoss MD140-02-L1-157-307 actuator is designed for durability and requires minimal maintenance. However, periodic checks can help ensure its longevity:

- **Regular Inspection:** Periodically inspect all cables and connections for signs of wear, fraying, or damage. Ensure they are securely plugged in.
- **Cleaning:** Keep the actuator free from dust and debris. Use a dry, soft cloth for cleaning. Do not use liquid cleaners directly on the actuator or electrical connections.
- **Lubrication:** The internal components are pre-lubricated and generally do not require additional lubrication. If you notice unusual noise or stiffness, consult a professional.
- **Environmental Conditions:** Avoid exposing the actuator to excessive moisture, extreme temperatures, or direct sunlight, as these can affect performance and lifespan.

7. Troubleshooting

If your recliner is not functioning correctly after installing the new actuator, consider the following troubleshooting steps:

- **No Power:**
  - Ensure the recliner is securely plugged into a working wall outlet.
  - Check the 2-pin power transformer connection to the actuator.
  - Verify the power transformer is functioning correctly (some transformers have indicator lights).
- **Hand Control Not Responding:**
  - Check the 5-pin hand control connection to the actuator. Ensure it is fully inserted and secure.

- Inspect the hand control cable for any visible damage.

- **Actuator Not Moving Smoothly or Making Unusual Noises:**
  - Ensure there are no obstructions preventing the recliner mechanism from moving freely.
  - Verify that the actuator is securely mounted and not binding.
  - If the issue persists, disconnect power and contact customer support.

For further assistance, please refer to the Support section.

8. Specifications

Feature	Specification
Brand	Limoss
Model Number	MD140-02-L1-157-307
Part Numbers Replaced	450312, 452958
Input Voltage	18-35V
Max Current	5A Max
Duty Cycle	Max. T_on: 2min, Min. T_off: 18min
Max Load (Push/Pull)	3000N
Color	Black
Material	Metal
Product Dimensions (L x W x H)	10.16 x 12.7 x 55.88 cm (4 x 5 x 22 inches)
Item Weight	2.27 Kilograms (5 Pounds)
Power Connection	2-pin flat round
Hand Control Connection	5-pin

9. Warranty Information

This Limoss ProFurnitureParts actuator comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and material flaws under normal use. It does not cover damage resulting from improper installation, misuse, abuse, unauthorized modifications, or normal wear and tear.
To make a warranty claim, please retain your proof of purchase and contact the seller or manufacturer's customer support.

10. Support

If you encounter any issues not covered in the troubleshooting section or require further assistance, please contact the retailer or manufacturer directly. When contacting support, please have your product model number (MD140-02-L1-157-307) and part number (450312 or 452958) readily available.

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